
Product Data Sheet

Product Name: LY9 Human
 Cat. No.: GP23851
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lymphocyte Antigen 9; Signaling Lymphocytic Activation Molecule 3; Cell Surface Molecule Ly-9; SLAM Family Member 3; SLAMF3; CD229 Antigen; CD229; Hly9; MLY9; LY9.		
Amino Acid Sequence	ADLKDSAPTV VSGILGGSVT LPLNISVDTE IENVIWIGPK NALAFARPKE NVTIMVKSYL GRLDITKWSY SLCISNLTLN DAGSYKAQIN QRNFVETTEE EFTLFVYEQL QEPQVTMKS V KSENFSCNI TLMCSVKGAE KSVLYSWTPR EPHASESNGG SILTVSRTPC DPDLPICTA QNPVSQRSSL PVHVGQFCTD PGASRGGTTG ETVVGV LGEP VTLPLALPAC RDTEKVVWLF NTSIISKERE EAATADPLIK SRDPYKNRVW VSSQDCSLKI SQLKIEDAGP YHAYVCSEAS SVTSMTHVTL LIYRRLRKP ITWSLRHSED GICRISLTCS VEDGGNTVMY TWTPLQKEAV VSQGESHLNV SWRSENHPN LTCTASNPVS RSSHQFLSEN ICSGPERNTK HHHHHH		
Formulation	LY9 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Lymphocyte Antigen 9, also known as LY9 is a member of the SLAM family of immunomodulatory receptors, LY9 interacts with the adaptor molecule SAP. LY9 plays a part in adhesion reactions between T lymphocytes and accessory cells via homophilic interaction. LY9 promotes T-cell differentiation into a helper T-cell Th17 phenotype which leads to increased IL-17 secretion; the costimulatory activity requires SH2D1A. Furthermore it also promotes recruitment of RORC to the IL-17 promoter. LY9 is implicated in the maintenance of peripheral cell tolerance through serving as a negative regulator of the immune response. LY9 disables autoantibody responses as well as inhibits IFN-gamma secretion by CD4(+) T-cells. Moreover, LY9 negatively regulate

Caution: Product has not been fully validated for medical applications. For research use only.

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the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells. Systemic Lupus Erythematosus is one of the diseases which are associated with LY9.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

LY9 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 416 amino acids (48-454 aa) and having a molecular mass of 45.9kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). LY9 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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